



# Tech in the World

Global health fellowships for tomorrow's leaders in technology

## Tech in the World: January 2014 Fellowship Program [info@techintheworld.org](mailto:info@techintheworld.org)

**Mission:** Tech in the World seeks to create world-class opportunities for top computer science students to experience the field of global health. We provide a global, hands-on experience for top computer science students who want to apply their technical expertise to solve critical issues in the developing world. We seek to develop tomorrow's leaders in technology.

**Vision:** Tech in the World intends to become a premier fellowship program, recruiting the best computer science students from around the nation, and providing a transformational overseas program in global health or global development.

More information on the mission, vision, background, problem statement, and theory of change can be found on our website at [www.techintheworld.org/proposal](http://www.techintheworld.org/proposal)

## January 2014 Program

### Overview

During last year's pilot program, we assembled four top computer science Harvard undergraduates and partnered with Bienmoyo Foundation and Association for Private Health Facilities in Tanzania (APHFTA) for four weeks over January 2013 to work on their electronic medical record system and develop an SMS reminder application.

For this year's program, we are in the process of assembling six outstanding Harvard computer science students as Tech in the World Fellows. We will continue our partnership with APHFTA to work on their diabetes health-monitoring tool as well as collaborate with a new partner, Ifakara Health Institute, to develop a mobile vital statistics data collection and analysis tool. The experience will include visiting village and hospital sites to work with doctors and community health workers in order to research the problem and current situation further. Finally, the Tech in the World Fellows will continue to engage in capacity building in Tanzania by teaching technical workshops and seminars to local university students.

### Partners on the Ground

We have been researching and planning this year's fellowship program since early June 2013. During the summer, we worked on nurturing old partnerships and expanding new partnerships in Tanzania. We got back in contact with the organizations we worked with last year (the Association of Private Health Facilities in Tanzania (APHFTA) and the Dar Es Salaam Institute of Technology (DIT)), and we explored potential partnerships with four other organizations. We discussed the opportunities for continuing our partnership with the old organizations and carefully evaluated the opportunities for partnering with new organizations. In the end, we decided to partner with one new organization: Ifakara Health Institute (IHI). IHI is one of Africa's most eminent research organizations, with over 50 years of history conducting health-related research and training new PhD scientists. We will work with IHI to develop a mobile vital statistics data collection and analysis tool. Additionally, we will build upon and strengthen our existing partnerships by collaborating with APHFTA on their diabetes health monitoring tool and teaching a series of technical workshops and seminars to university students at the Dar Es Salaam Institute of Technology.

## Planned Work

We have four components of our fellowship program in Tanzania:

1. Working with researchers and developers at the Ifakara Health Institute to develop a mobile vital statistics data collection and analysis tool, which will involve building SMS-enabled data reporting software and a web-based data management software used by doctors and field staff. This is used so that (a) community health workers can report the occurrence of births and deaths in rural villages; (b) field workers may arrive to collected details of the event; and (c) doctors in the city can make the appropriate diagnosis (e.g., cause of death). The software will also be used for aggregating and visualizing the statistics.
2. Continuing last year's partnership with APHFTA by overhauling their diabetes and AIDS health-monitoring tool. Due to many user experience issues in the system, and a lack of the necessary technical knowledge on site to resolve those issues, APHFTA has been unable to use their diabetes and AIDS health monitoring tool developed last year. This system is used by doctors to enter in basic information about patients and, when fully functioning, allows the hospitals to track progress more easily over time, enabling more precise treatment plans to be designed for each patient.
3. Continuing last year's partnership with the Dar es Salaam Institute of Technology by continuing to work with students and teach technical workshops. Planned workshop topics include: web development in Python, web security, front-end web development, relational databases, and online resources for learning software development. We also plan on spending unstructured time with the students to build community between the fellows and Tanzanian students and to encourage cultural exchange.
4. We have contacts with expats working in development in Tanzania and local entrepreneurs at a technology incubator, and we plan on meeting with them to better understand their work and to get a better sense of the environment we will be working in.

## Budget:

Item Description	Reference/Notes	Cost
Airfare	www.kayak.com	\$1350 x 6 fellows = \$8,100
Housing	www.hostelbookers.com	\$50 per night x 24 nights = \$1200
Visa	Travisa Travel Services	\$105 x 6 fellows = \$630
<b>Total</b>		<b>\$9,930</b>

## Non-Recruiting Sponsorship

Bronze (\$3000)

Logo and company placement on our website and recognition on all marketing materials

Silver (\$5000)

In addition to the above, Tech in the World Fellows will evangelize a technology/platform/API of your choice to the university students and entrepreneurial community in Dar es Salaam

Gold (\$10,000):

In addition to the above, the trip will be renamed the [Company Name] Tech in the World Fellowship Program

## Recruiting Sponsorship

*Exclusive access to the most talented CS students at Harvard*

Fellows go through a rigorous selection process that includes a 3rd-party software engineer performing technical screenings. Fellows who complete the program have unparalleled hands-on software development experience in the field as well as teamwork experience.

\$3500 includes:

- Exclusive Networking session with top 10 qualified candidates (logistics completely handled by Tech in the World)
- Resume book with work history and contact information of top 10 qualified candidates